**Community characteristics & orientation**

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| Community (UN SD goal): | Goal 6 - Clean Water and Sanitation  Goal 3 - Good Health and Well being  Goal 11 - Sustainable Cities and Communities  Goal 17 - Partnerships for the goals |
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**Instructions**

Research the community you are most interested in exploring using links from the UN Sustainable Goals website (<https://www.un.org/sustainabledevelopment/>) and others. In your exhaustive research, answer the following.

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| **Community characteristics** | | | | | | | | | | | | |
| **Community life-cycle (current state)** | | | | | | | | | | | | |
| **Where is your community in its life-cycle?** | | | | | | | | **What you need to focus on:** | | | **Special needs** | |
| **Just forming**  Need basic tools to connect, but not sure from there | | | | | | | | Research and/or discuss the potential of some basic tools with members, explore what ideas it might give them, and see what they might bring in with them. | | | There is no community apart from government body that focus on solving water issue in Tanzania. Moreover, Tanzania has a low literacy rate and people are not familiar with digital habitats. My idea is to introduce simple tools to address the water issue in Tanzania working with current water infrastructure available. There is no dedicated platform available where people can come together to address water issue in local communities. The goal is to create a platform to check if the water pump is operational or not and predict if installing a new water pump will be functional or not. | |
| **Self-designing**  Information stage, but with a strong sense of what it wants to accomplish | | | | | | | | Contribute ideas to the design. Analyze systematically the implications of their community design for technology, infrastructure, and technology skills. | | |  | |
| **Growing & restless**  Ready to add new functionality to its tool configuration | | | | | | | | Try to make this a community reflection and self-design event. Does their restlessness suggest a major change, such as a transition to a new platform? | | |  | |
| **Stable and adapting**  Just needing some new tools | | | | | | | | How much disruption will the community tolerate? How will the new tools be integrated into or affect existing practices? | | |  | |
| **Constitution** | | | | | | | | | | | | |
| **Diversity:** How diverse is the community? | | | | | | | | | | | | |
| **Topic** | | | | | | | | **Your notes** | | | | |
| What are the different types of members and what are their levels of participation? | | | | | | | | The members include the people from communities of Tanzania, officials from regime and NGO’s who wants to make a donation to improve water infrastructure. The level of participation for the north star customer will be information level [1]. i.e they will be the source of information for requirement gathering and using the tools of digital habitat. The creator’s role is managed by agency maintaining the infrastructure. The curator’s and consumers role will be played by people of Tanzania using the platform. | | | | |
| How spread apart is it in terms of location and time zones? | | | | | | | | The majority of the people in community will be Tanzania. The time zones will be GMT+3. | | | | |
| What language(s) do members speak? | | | | | | | | English and Swahili | | | | |
| What other cultural or other diversity aspects may affect your technology choices? | | | | | | | | * As around 95% [2] speak English and Swahili. So, the tools that I will design can use English language as it is spoken by 1348 million people [3] worldwide. This will also help me to over come language constraints in my design. * The internet connectivity in remote location can be a major problem for users to use this technology * The design should be easily navigable and ambiguity in tool design should be minimal for it to be user friendly. | | | | |
| **Openness:** How connected to the outside world is your community? | | | | | | | | | | | | |
| **Topic** | | | | | | | | | **Your notes** | | | |
| How much do you want to control the boundaries of your community? Does your community need | | | | | To be private/secure  Open boundaries  Both private & public spaces | | | | As the platform will help to create transparency in managing water infrastructure and help communities to discuss water issue in Tanzania.  For the initial design idea, I want to keep it as an open boundary system and will include map of current status of pump in Tanzania and a chat forum to reach out to officials and discuss alternative to solve the water crisis.  There might be some features that can be developed in future that comes under the domain of private spaces for managing the technician for repairing the non-functional infrastructure. | | | |
| How does your community need to interact with other communities? Do you need common tools for sharing and learning with them? | | | | | | | | | In the current releases, the community will interact with other communities [i.e., global world] by leveraging the present social media platforms like Facebook, etc for global exposure as the platform become popular over time. The application will have a dedicated tool to reach out to global community. | | | |
| **Technology aspirations** | | | | | | | | | | | | |
| **Technology savvy, tolerance, & constraints**: What are your community’s technology interests and skills and patience thereof? What are the constraints imposed by technology factors? | | | | | | | | | | | | |
| **Topic** | | | | | | | | **Your notes** | | | | |
| How interested is your community in technology? | | | | | | | | There has been steady increase in population being more adaptive to technology although there are some percent who are laggards as well. Looking at the statistics [4] there has been steady increase in population using internet to 15.5 million in 2021. | | | | |
| What is their capacity for learning new tools? | | | | | | | | As the people are getting exposure to new technology there is many people who lies under the category of early adaptors and early majority. My goal is to make this transition smoother by designing the platform with simple interface. | | | | |
| What is the range of skills? If their interests and/or skills are diverse, could it cause conflict or distraction? | | | | | | | | There can be conflict on the platform in term of censoring the content posted in chat as this can be used by private water distribution firms for promotional purpose or opposition regime to undermine the government efforts to manage the water infrastructure.  As the main functionality for the platform is to aid the water infrastructure by predicting the if the water pup is functional or not. So we can isolate the conflict to other non-essential tools and find solutions to minimize its negative impact on community. | | | | |
| How tolerant are members of the adoption of a wide variety of tools? | | | | | | | | As community is affected by water crisis it has become important for them to solve the issue and would welcome any efforts to bring change on grass root level with making huge changes to current water infrastructure s | | | | |
| How many technological boundaries are they willing to cross, e.g. sign in to more than one web-based tool, learn to use new tools, or give up old favorites? This helps you understand what level of integration you need. | | | | | | | | As there are no tools to predict or monitor the water pump it will be interesting to see how community will react to introduction of a new digital habitat. I am planning to integrate the tools and provide a unified platform but as my core idea is or open community as does not require a sign on I will be creating a single sign on feature make the application user friendly. | | | | |
| What are your members’ technology constraints (e.g., bandwidth, operating systems, etc.)? | | | | | | | | There constraints for deploying a custom ML model on web interface is not possible via WordPress and I have to use Django for it to be functional. Given the time constraints designing a chart functionality will be exhaustive so I would use WordPress or similar technology to create the chat tool. | | | | |
| How much time are members able to be online and from where (office, home, field)? Some people have limited online time, or are able to be online only in specific locations. Others are always on. Very diverse situations can affect participation | | | | | | | | The members can be online and or chat in asynchronous manner on a thread. | | | | |
| **Community orientation** | | | | | | | | | | | | |
| **Relevance to community**: Use the range from 0 (no relevance) to 5 (high relevance) to determine what matters most to the community. Look at these from the perspectives of the different types of members (under “constitution”). Also discuss the “value-added” to each member group | | | | | | | | | | | | |
| **0** | **1** | **2** | **3** | **4** | | **5** | **Orientations** | | | **Variants** | | **Key activities/your notes** |
|  |  |  |  |  | |  | **Meetings**  Many communities place a great emphasis on regular meetings where members engage in shared activities for a specific time. Meetings, and the visible participation of members, assert the community’s existence | | | Face-to-face/blended  Online synchronous  Online asynchronous | | Meeting does not play a vital role in my design idea. The portal can be used by agency to make announcement related to water pump.  The portal can be used to host events for educating communities on sustainable water consumptions |
|  |  |  |  |  | |  | **Open-ended conversation**  Some communities maintain ongoing conversations as their primary vehicles for learning. Open-ended conversations are common when a community is co-located and people keep the conversation going as they “bump” into each other. | | | Single-stream discussions  Multi-topic conversations  Distributed conversations | | The idea is to create single thread of the pump to perform analytics on the pump individually |
|  |  |  |  |  | |  | **Projects**  In some communities’ members want to focus on particular topics, go deep, and collaborate on projects to solve problems or produce useful artifacts. Learning is not just a matter of sharing knowledge or discussing issues. Members need to do things together in order to develop their practice. Projects usually involve a subgroup within the community | | | Practice groups  Project teams  Instruction | | There might be different teams managing different aspect of the platform. i.e. content team can do sentimental analysis on a particular thread to see how people feel about the service for that water pump, The management can perform job scheduling for the pumps that are non-functional |
|  |  |  |  |  | |  | **Content**  Some communities are primarily interested in creating, sharing, and providing access to documents, tools, and other content. Valuable and well-organized content is a useful resource for members | | | Library  Structured self-publish  Open self-publish  Content integration | | As the idea is to create collaborative ways to solve the water crisis. I am planning on making it an open-source platform where material can be posted and also the content can be published by agency so can these can be put under content integration. |
|  |  |  |  |  | |  | **Access to expertise**  Some communities create value by providing focused and timely access to expertise in the community’s domain, whether internally or externally. Communities with this orientation focus on answering questions, fulfilling requests for advice, or engaging in collaborative, just-in-time problem solving | | | Questions & requests  Access to experts  Shared problem solving  Knowledge validation  Apprenticeship & mentoring | | People can discuss the problem and find solution to solve water crisis. |
|  |  |  |  |  | |  | **Relationships**  Some communities focus on relationship building among members as the basis for both ongoing learning and being available to each other. This orientation emphasizes the interpersonal aspect of learning together. Communities with this orientation place a high value on knowing each other personally, emphasizing networking, trust building, and mutual discovery | | | Connecting  Knowing about people  Interacting informally | | The idea is to connect people to solve water crisis through chat forum where the interaction can be informal |
|  |  |  |  |  | |  | **Individual participation**  Learning together happens in the context of a group, but it is realized in the experience of individuals. People bring different backgrounds, communication styles, and aspirations to their participation in a community. People have different levels of commitment, they take on different roles, and they use tools differently | | | Levels of participation  Personalization  Individual development  Multi-membership | | The level of participations on various thread will be different based on the locality and as the problem is affecting the community so it will include various levels of participations to solve the problem. |
|  |  |  |  |  | |  | **Community cultivation**  Some communities are happy with loose self-organization and unplanned evolution, while others thrive on attention to community cultivation. They have a need to reflect on the effectiveness and health of the community to make things better, joined with a willingness to work on it | | | Democratic governance  Strong core group  Internal coordination  External facilitation | | There will be officials on the platform answering the questions leading to strong core group but platform can be used as a space to discuss the problem like water quality, etc for a particular thread leading to democratic governance |
|  |  |  |  |  | |  | **Service context**  In some cases, serving a specific context becomes central to the community’s identity and the ways it operates. They may live inside an organization, whose charter their practice needs to serve. They may have a mission to provide learning resources to the world or to recruit members widely. Or they may seek interactions with other communities whose domain complements their own | | | Organization as context  Cross-organizational  Other related communities  Public mission | | There might be other communities that might be interested in this solution to solve water problem in their regions |
| **Scratchpad (other interesting insights, questions/answers, etc.)** | | | | | | | | | | | | |
| References  [1] PQ-HIV. www.pq-hiv.de/en/chapter/levels-participation. Accessed 17 May 2021.  [2] Wikipedia. Languages of Tanzania. en.wikipedia.org/wiki/Languages\_of\_Tanzania. Accessed 18 May 2021.  [3] Statista. www.statista.com/statistics/266808/the-most-spoken-languages-worldwide/. Accessed 18 May 2021.  [4] Data Portal. datareportal.com/reports/digital-2021 tanzania#:~:text=Social%20media%20statistics%20for%20Tanzania,total%20population%20in%20January%202021.. Accessed 18 May 2021.  The ideas might evolve when implementing the application based on constraints | | | | | | | | | | | | |